

### **Amendments to the Specification**

*Please replace the paragraph beginning at line 4 on page 11 with the following new paragraph:*

In addition, when second user 102 transmits pilot signals, the matched filter 200 catches the signal synchronization of the second user 102. If the PN seed used by the second user 102 is identical to the coefficient loaded at the time point of  $M/N$  msec, It outputs the position in which the offset from the synchronization point of time is considered to the corresponding demodulator 302. Here, the offset is the time taken for loading the corresponding coefficient. That is, in the case that synchronization is caught by using the coefficient loaded at the time point of  ~~$2M/N$~~   $M/N$  msec, the offset at that time becomes  $M/N$  msec. When synchronization is caught by using the coefficient loaded at the time point of  ~~$3M/N$~~   $2M/N$  msec, the offset at that time becomes  $2M/N$  msec. Thus, in the position where the synchronization is caught using the first coefficient loaded from the synchronization point of time, the offset is not considered. In this manner, the user signal synchronized in the single matched filter 200 is demodulated by the corresponding demodulator.

*Please replace the paragraph beginning at line 12 on page 6 with the following new paragraph:*

Figure 2 is a block diagram of a system for acquiring multi-user signal synchronization in a CDMA system in accordance with a preferred embodiment of the present invention. As illustrated therein, the apparatus includes a plurality of user units 101~(100+N) to generate pilot signals using different PN seeds. The user units 101~(100+N) align the generated pilot signals so as to transmit them within a predetermined time from a synchronization point of time (see Figure 4). The system further includes a CDMA receiver having a matched filter 200 for acquiring synchronization of signals transmitted from the plurality of CDMA transmitters 101~(100+N) in one frame period. It does so by varying the tap coefficient at a certain interval in the frame period.

Finally, the system includes a plurality of demodulators 301~(300+N) to demodulate signals of the plurality of user units 100~(100+N) synchronized in the single matched filter 200.

*Please replace the paragraph beginning at line 12 on page 9 with the following new paragraph:*

Figure 5 is a flow chart showing a method for acquiring multi-user signal synchronization in this matched filter 200. As illustrated therein, the method includes the steps of storing each of the PN seeds of the plurality of user units 101~(100+N) and setting the time  $M/N$  msec that is obtained by dividing  $M$  msec, the length of one frame, into  $N$ , the number of user units (101~100+N) as a tap coefficient updating time, as shown in steps ST11 and ST12. Next, coefficients corresponding to the plurality of stored PN seeds are generated and loaded at each  $M/N$  msec in a random order, as shown in step ~~[[ST3]]~~ ST13.